TELEPHONE: 512/474-5201
FACSIMILE: 512/536-4598
STEVEN L. HIGHLANDER
PARTNER

TULBRIGHT & JAWORSKI L.L.P.

A REGISTERED LIMITED LIABILITY PARTNERSHIP

600 CONGRESS AVENUE, SUITE 2400

Austin, Texas 78701

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SHIGHLANDER@FULBRIGHT.COM

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FILE: UTSD:857US

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I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail in an envelope addressed to: Commissioner for Patents, Washington, DO 20231 on the date below:

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Commissioner for Patents Washington, DC 20231

RE:

SN 10/076,918 "TRAF6-REGULATED IKK ACTIVATORS (TRIKA1 AND TRIKA2) AND THEIR USE AS ANTI-INFLAMMATORY TARGETS" – Zhijian J. Chen and Li Deng

Sir:

Enclosed for filing in the above-referenced patent application is an Information Disclosure Statement, Form PTO-1449, and references (A1-A4, B1-B2, C1-C45).

No fees are believed to be due in connection with the filing of this Information Disclosure Statement, however, should any fees under 37 C.F.R. §§ 1.16 to 1.21 be deemed necessary for any reason relating to the enclosed materials, the Commissioner is hereby authorized to deduct said fees from Fulbright & Jaworski Deposit Account No.: 50-1212/10107423/SLH.

Please date stamp and return the enclosed postcard evidencing receipt of these materials.

Respectfully submitted,

Steven L. Highlander Reg. No. 37,642

SLH/cmb

Encl: as noted

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A. .

**PATENT** 

### IN THE ENITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Zhijian J. Chen Li Deng

Serial No.: 10/076,918

Filed: October 11, 2001

For: TRAF6-REGULATEDIKK ACTIVATORS

(TRIKA1 AND TRIKA2) AND THEIR USE AS ANIT-INFLAMMATORY

**TARGETS** 

Group Art Unit: Unknown

Examiner: Unknown

Atty. Dkt. No.: UTSD:857US/SLH

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L. Hi<del>ghlan</del>der

### INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents Washington, D.C. 20231

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56, it is respectfully requested that this Information Disclosure Statement be entered and the documents listed on attached Form PTO-1449 be considered by the Examiner and made of record. Copies of the listed documents required by 37 C.F.R. § 1.98(a)(2) are enclosed for the convenience of the Examiner.

In accordance with 37 C.F.R §§ 1.97(g), (h), this Information Disclosure Statement is not to be construed as a representation that a search has been made, and is not to be construed to be

an admission that the information cited is, or is considered to be, material to patentability as

defined in 37 C.F.R. § 1.56(b).

The present Information Disclosure Statement is being filed prior to the receipt of a first

Official Action reflecting an examination on the merits, and hence is believed to be timely filed

in accordance with 37 C.F.R § 1.97(b). No fees are believed to be due in connection with the

filing of this Information Disclosure Statement, however, should any fees under 37 C.F.R.

§§ 1.16 to 1.21 be deemed necessary for any reason relating to these materials, the

Commissioner is hereby authorized to deduct said fees from Fulbright & Jaworski Deposit

Account No.: 50-1212/10107423/SLH.

Applicants respectfully request that the listed documents be made of record in the present

case.

Respectfully submitted,

Steven L. Highlander

Reg. No 37,642

Attorney for Applicants

FULBRIGHT & JAWORSKI L.L.P. 600 Congress Avenue, Suite 2400 Austin, Texas 78701 (512) 474-5201

Date:

April 4, 2002

Form PTO-1449 (modified)		Atty. Docket No.   Serial No.   UTSD:857US/SLH   10/076,918		
List of Patents and Publications for	Applicant's	Applicant Zhijian J. Chen		
Information Disclosure S	TATEMENT	Li Deng		
(Use several sheets if necessar	ry)	Filing Date: October 11, 2001	Group: Unknown	
> 118 Patent Uncuments   Koreion Pa		atent Documents	Other Art	
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## **U.S. Patent Documents**

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
	A1	5,708,142	1/13/98	Goeddel et al.	530	350	5/27/94
	A2	5,710,013	1/20/98	Goeddel et al.	435	29	4/19/96
	A3 ·	5,741,667	4/21/98	Goeddel et al.	435	69.1	5/22/95
	A4	5,767,244	6/16/98	Goeddel et al.	530	350	11/20/97

## **Foreign Patent Documents**

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
<b>5</b> .	B1	JP 00197500	7/18/00	Japan			Abstract
	B2	WO 99/40202	8/12/99	PCT			Abstract

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`	C1	Ansieau et al., "Tumor necrosis factor receptor-associated factor (TRAF)-1, TRAF-2, and TRAF-3 interact in vivo with the CD30 cytoplasmic domain; TRAF-2 mediates CD30-induced nuclear factor kappa B activation," <i>Proc. Na't. Acad. Sci. USA</i> 93:14053-14058, 1996.
•	C2	Cao et al., "IRAK: a kinase associated with the interleukin-1 receptor," Science 271:1128-1131, 1996.
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•	C4	Chau et al., "A multiubiquitin chain is confined to specific lysine in a targeted short-lived protein," Science 243:1576-1583, 1989.
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Information Disclosure Statement		Li Deng		
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•	C10	Deng et al. "Activation of the IkB kinase complex by TRAF6 requires a dimeric ubiquitin-conjugating enzyme complex and a unique polyubiquitin chain," Cell, 103:351-361, 2000.
`	C11	Dinarello, "Biologic basis for interleukin-1 in disease," Blood 87:2095-2147, 1996.
•	C12	Farrar et al., "Activation of the Raf-1 kinase cascade by coumermycin-induced dimerization," Nature, 383:178-181, 1996.
,	C13	Finley, "An alternative to destruction," Nature, 412:283-286, 2001.
	C14	Gedrich et al., "CD30 contains two binding sites with different specificities for members of the tumor necrosis factor receptor-associated factor family of signal transducing proteins," J. Biol. Chem. 271:12852-12858, 1996
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,	C16	Hatada et al., "NF-κB and the innate immune response," Curr Opin Immunol, 12(1):52-58, 2000
,	C17	Haung et al., "Recruitment of IRAK to the interleukin 1 receptor complex requires interleukin 1 receptor accessory protein," Proc Nat'l Acad Sci USA., 94(24):12829-12832, 1997.
•	C18	Hershko and Heller, "Occurrence of a polyubiquitin structure in ubiquitin-protein conjugates," Biochem. Biophys. Res. Commun., 128:1079-1086, 1985.
•	C19	Hofmann and Pickart, "Noncanonical MMS2-encoded ubiquitin-conjugating enzyme functions in assembly of novel polyubiquitin chains for DNA repair," Cell, 96:645-653, 1999.
>	C20	Hsu et al., "TRADD-TRAF2 and TRADD-FADD interactions define two distinct TNF receptor 1 signal transduction pathways," Cell, 84:299-308, 1996.
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			Zhijian J. Chen		
	INFORMATION DISCLOSURE ST	ATEMENT	Li Deng		
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,	C23	Laney and Hochstrasser, "Substrate targeting in the ubiquitin system," Cell, 97:427-430, 1999.
,	C24	Lee et al., "Activation of the IκBα kinase complex by MEKK1, a kinase of the JNK pathway," Cell, 88:213-222, 1997.
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`	C29	Naito et al., "Severe osteopetrosis, defective interleukin-1 signalling and lymph node organogenesis in TRAF6-deficient mice," Genes to Cells, 4:353-362, 1999.
•	C30	Nakano et al. "TRAF5, an activator of NF-κB and putative signal transducer for the lymphotoxin-β receptor," J. Biol. Chem., 271:14661-14664, 1996.
.77	C31	Ninomiya-Tsuji et al., "The kinase TAK1 can activate the NIK-IkB as well as the MAP kinase cascade in the IL-1 signalling pathway," <i>Nature</i> , 398:252-256, 1999.
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	C34	Rothe et al., "TRAF2-mediated activation of NF-κB by TNF receptor 2 and CD40," Science, 269:1424-1427 1995.
-	C35	Rothofsky and Lin, "CROC-1 encodes a protein which mediates transcriptional activation of the human FOS promoter," <i>Gene</i> , 195:141-149, 1997.

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(Use several sheets if necessary	iry)	Filing Date: October 11, 2001	Group: Unknown	
See Page 1	1 -	Patent Documents See Page 1	Other Art See Page 1	

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	C37	Sato et al., "A novel member of the TRAF family of putative signal transducing proteins binds to the cytosolic domain of CD40," FEBS Lett., 358:113-118, 1995.
`	C38	Simonsen and Stenmark, "PX domains: attracted by phosphoinositides," <i>Nature Cell Biol.</i> , 3:E179-E182, 2001.
•	C39	Smith et al., "The TNF receptor superfamily of cellular and viral proteins: activation, costimulation, and death," Cell, 76:959-962, 1994.
•	C40	Song and Donner, "Association of a RING finger protein with the cytoplasmic domain of the human type-2 tumour necrosis factor receptor," <i>Biochem. J.</i> , 309:25-829, 1995.
•	C41	Spencer et al., "Signal-induced ubiquitination of IκBα by the F-box protein Slimb/β-TrCP," Genes Dev., 13:284-294, 1999.
•	C42	Takaesu et al., "Interleukin-1 (IL-1) receptor-associated kinase leads to activation of TAK1 by inducing TAB2 translocation in the IL-1 signaling pathway," Mol. Cell. Biol., 21(7):2475-2484, 2001.
•	C43	Takaesu, et al. "TAB2, a novel adaptor protein, mediates activation of TAK1 MAPKKK by linking TAK1 to TRAF6 in the IL-1 signal transuction pathway," Mol. Cell, 5:649-658, 2000.
•	C44	Wang et al., "TAK1 is a ubiquitin-dependent kinase of MKK and IKK," Nature, 412:346-351, 2001.
`	C45	Zapata et al., "A diverse family of proteins containing tumor necrosis factor receptor-associated factor domains," J. Biol. Chem., 276(26):24242-24252, 2001.

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